

Claims

1. Method for increasing the capacity of an installation (1) used to carry out an industrial process, with the following steps:

5 - Determining the process variables (P₁ ... P₁₀) relevant for the capacity of the installation (1),
- Recording the process variables (P₁ ... P₁₀) under changing operating conditions of the installation,
- Determining a smallest control reserve of the control loops
10 of the installation on the basis of the recorded process variables (P₁ ... P₁₀).

2. Method according to claim 1 with the further steps:

15 - Defining a desired increase in the capacity of the installation,
- Determining the control reserves in the control loops of the installation necessary for the desired capacity increase,
- Determining the control loops with a control reserve which is too small for the desired capacity increase.

3. Method according to claim 2 with the further steps:

20 - Technical system and/or technological investigation of the control loops with a control reserve which is too small and
- Formulation of measures for producing the control reserves required in each case by relieving the load on the relevant control loops and/or by replacing components in the relevant
25 control loops by higher-capacity components

4. Method according to claim 3 with the further step:

- Performing a technical and/or commercial evaluation of the measures.

5. Method according to claim 1, with a core process being

30 defined for determining the relevant process variables and

interfaces of the core process with ancillary processes surrounding them being investigated for an effect relationship with a process variable representing the capacity of the installation.

- 5 6. Method in accordance with one of the previous claims, in which the installation (1) concerned is an installation for execution of a continuous process, especially a process for manufacturing of production line goods (8), e.g. paper, textiles, plastic or metal foils.
- 10 7. Method in accordance with claim 6, with the capacity of the installation being determined by the speed of the production line (8).
8. Method in accordance with one of the previous claims, with the method being executed by a service provider company.
- 15 9. Method in accordance with one of the previous claims, with the process variables being filtered approximately every 2 seconds and sampled approximately every 5 seconds when they are recorded.